## **CLAIMS**

I claim:

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5 1. A method for adding functionality in order to access information, comprising:

automatically adding first additional code to existing code that creates a first software entity, said first additional code stores first data relevant to said first software entity, said first data is available when said first software entity is created; and

automatically adding second additional code to existing code that uses said first software entity, said second additional code accesses second data relevant to said first software entity and correlates said second data with said first data.

- 2. A method according to claim 1, wherein:
- said existing code that creates a first software entity and said existing code that uses said first software entity are part of a single application.
- 3. A method according to claim 1, wherein:
   said second data relevant to said first software entity includes information about
   20 use of said first software entity.
  - 4. A method according to claim 1, wherein: said first software entity is an object.
- 5. A method according to claim 1, wherein:
  said existing code that creates a first software entity and said existing code that
  uses said first software entity are object code.

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6. A method according to claim 1, wherein:

said existing code that creates a first software entity and said existing code that uses said first software entity are Java object code.

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7. A method according to claim 1, wherein:

said existing code that creates a first software entity is part of a larger set of code; and

prior to said step of automatically adding first additional code, said first data is 10 not always made available by said larger set of code.

- 8. A method according to claim 1, further comprising the steps of: executing said first additional code with said existing code that creates said first software entity; and
- executing said second additional code with said existing code that uses said first software entity.
- 9. A method according to claim 1, further comprising the steps of:
   storing said first additional code with said existing code that creates said first
   20 software entity; and

storing said second additional code with said existing code that uses said first software entity.

- 10. A method according to claim 1, wherein:
- said second additional code traces said first software entity in order to produce trace data; and

said second data includes said trace data.

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- 11. A method according to claim 10, wherein:
- said first software entity is an object;
- said first additional code stores said object with said first data;
- 5 said second additional code uses said object to correlate said trace data with said first data.
  - 12. A method according to claim 1, wherein: said first software entity is an object that pertains to a connection.

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- 13. A method according to claim 1, wherein:
- said first data indicates an SQL statement;
- said first software entity is an object that pertains to said SQL statement;
- said existing code that creates said first software entity receives said SQL
- 15 statement;

said first additional code stores said SQL statement and said object;

- said second additional code traces a use of said object and produces resulting
- trace data, said second additional code stores said trace data with said first data; and
  - said existing code that uses said first software entity causes the execution of said
- 20 SQL statement.
  - 14. A machine implemented method for adding functionality in order to access information, comprising:
- adding first additional object code to a first portion of existing object code that

  25 creates a first software entity, said first additional object code stores first data relevant to
  said first software entity, said first data is available to said existing object code when said
  first software entity is created; and

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adding second additional object code to a second portion of said existing object code that uses said first software entity, said second additional object code accesses second data relevant to said first software entity and correlates said second data with said first set of data.

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15. A method according to claim 14, wherein:

said first software entity is an object; and

said existing code that creates a first software entity and said existing code that uses said first software entity are object code.

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16. A method according to claim 14, wherein:

said step of adding second additional code includes adding code that traces said first software entity and produce trace data, said second data includes said trace data; and said step of adding second additional code further includes adding code that stores said trace data with said first data using said first software entity to correlate said trace data with said first data.

17. A method according to claim 14, wherein:

said first software entity is an object;

said step of adding first additional code includes adding code that stores said object with said first data; and

said step of adding second additional code includes adding code that uses said object to correlate said second data with said first data.

18. A method according to claim 14, wherein:

said first data indicates an SQL statement;

said first software entity is an object that pertains to said SQL statement;

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said existing code that creates said first software entity receives said SQL statement;

said existing code that uses said first software entity causes the execution of said SQL statement;

said step of adding first additional code includes adding code that stores said SQL statement and said object; and

said step of adding second additional code includes adding code that traces a use of said object thereby producing trace data and stores said trace data with said first data.

19. A method for adding functionality in order to access information, comprising:

modifying existing object code to add new functionality; and
executing said modified existing object code, said step of executing includes
creating an object, storing first data relevant to said object, tracing said object to produce
trace data and correlating said trace data to said first data;

said steps of creating, storing and correlating are performed by new code added during said step of modifying.

- 20. A method according to claim 19, wherein:
  20 said object pertains to an SQL statement;
  said first data indicates said SQL statement; and
  said trace data is correlated to said first data using said object.
- 21. A method according to claim 20, wherein:
  25 said step of executing includes causing a performance of said SQL statement; and said trace data indicates a time for performing said SQL statement.

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22. One or more processor readable storage devices having processor readable code embodied on said processor readable storage devices, said processor readable code for programming one or more processors to perform a method comprising:

automatically adding first additional code to existing code that creates a first software entity, said first additional code stores first data relevant to said first software entity, said first data is available when said first software entity is created; and

automatically adding second additional code to existing code that uses said first software entity, said second additional code accesses second data relevant to said first software entity and correlates said second data with said first data.

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23. One or more processor readable storage devices according to claim 22, wherein:

said first software entity is an object; and

said existing code that creates a first software entity and said existing code that uses said first software entity are object code.

24. One or more processor readable storage devices according to claim 22, wherein:

said step of adding second additional code includes adding code that traces said

first software entity and produce trace data, said second data includes said trace data; and
said step of adding second additional code further includes adding code that stores
said trace data with said first data using said first software entity to correlate said trace
data with said first data.

25. One or more processor readable storage devices according to claim 22, wherein:

said first software entity is an object;

said step of adding first additional code includes adding code that stores said object with said first data; and

said step of adding second additional code includes adding code that uses said object to correlate said second data with said first data.

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26. One or more processor readable storage devices according to claim 22, wherein:

said first data indicates an SOL statement;

said first software entity is an object that pertains to said SQL statement; said existing code that creates said first software entity receives said SQL

statement:

said existing code that uses said first software entity causes the execution of said SQL statement;

said step of adding first additional code includes adding code that stores said SQL statement and said object; and

said step of adding second additional code includes adding code that traces a use of said object thereby producing trace data and stores said trace data with said first data.

One or more processor readable storage devices having processor readable
 code embodied on said processor readable storage devices, said processor readable code
 for programming one or more processors to perform a method comprising:

modifying existing object code that creates an object in order to store first data relevant to said object, said first data is available when said first object is created; and modifying existing object code that uses said object in order to trace said object to produce trace data and correlate said trace data to said first data.

28. One or more processor readable storage devices according to claim 27,

wherein:

said first data represents an SQL statement;

said object pertains to said SQL statement;

said existing code that creates said first software entity receives said SQL

5 statement;

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said existing object code that uses said object causes execution of said SQL statement; and

said trace data includes information about how long said SQL statement executes.

29. An apparatus for adding functionality in order to access information, comprising:

a communication interface;

a storage device; and

one or more processors, said one or more processors in communication with said communication interface and said storage device, said one or more processors perform a method comprising:

automatically adding first additional code to existing code that creates a first software entity, said first additional code stores first data relevant to said first software entity, said first data is available when said first software entity is created, and

automatically adding second additional code to existing code that uses said first software entity, said second additional code accesses second data relevant to said first software entity and correlates said second data with said first data.

- 30. An apparatus according to claim 29, wherein:
- said first software entity is an object; and

said existing code that creates a first software entity and said existing code that uses said first software entity are object code.

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31. An apparatus according to claim 29, wherein:

said step of adding second additional code includes adding code that traces said first software entity and produce trace data, said second data includes said trace data; and said step of adding second additional code further includes adding code that stores said trace data with said first data using said first software entity to correlate said trace data with said first data.

32. An apparatus according to claim 29, wherein:

said first software entity is an object;

said step of adding first additional code includes adding code that stores said object with said first data; and

said step of adding second additional code includes adding code that uses said object to correlate said second data with said first data.

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33. An apparatus according to claim 29, wherein:

said first data indicates an SQL statement;

said first software entity is an object that pertains to said SQL statement; said existing code that creates said first software entity receives said SQL

20 statement;

said existing code that uses said first software entity causes the execution of said SQL statement;

said step of adding first additional code includes adding code that stores said SQL statement and said object; and

said step of adding second additional code includes adding code that traces a use of said object thereby producing trace data and stores said trace data with said first data.

34. An apparatus for adding functionality in order to access information, comprising:

a communication interface;

a storage device; and

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one or more processors, said one or more processors perform a method comprising:

modifying existing object code to add new functionality, and
executing said modified existing object code, said step of executing
includes creating an object, storing first data relevant to said object, tracing said object
and correlating information relevant to said tracing to said first data, said step of creating,
storing and correlating are performed by new code added during said step of modifying.

- 35. An apparatus according to claim 34, wherein:
   said object pertains to an SQL statement;
   said first data indicates said SQL statement; and
   said information relevant to said tracing is correlated to said first data using said object.
- 36. An apparatus according to claim 34, wherein:
   said step of executing includes causing a performance of said SQL statement; and said information relevant to said tracing indicates a time for performing said SQL statement.

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